



ISO NWIP

ISO/TC 37 ANNUAL FORUM BRUSSELS

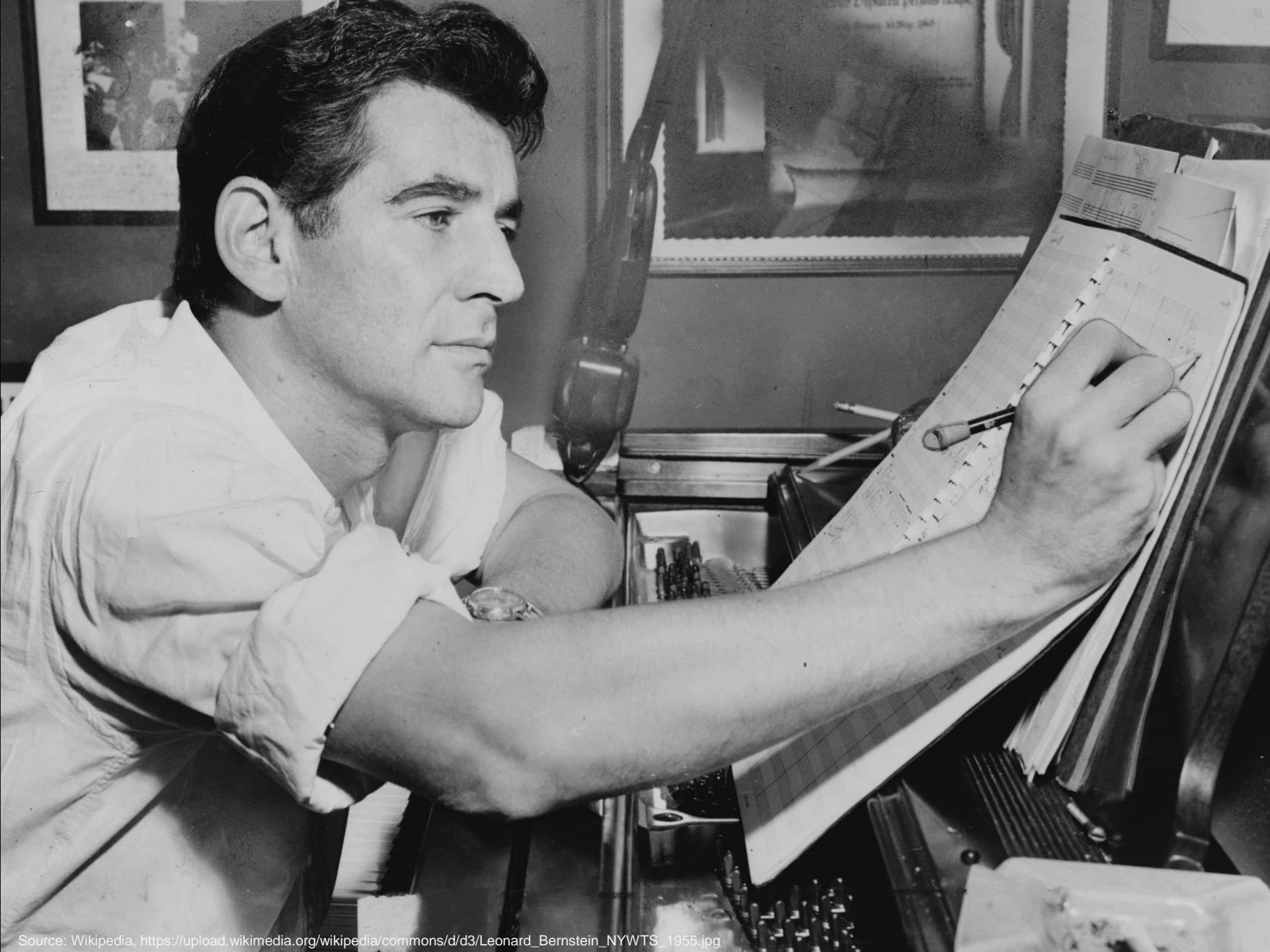
11TH JUNE 2023

A STANDARD NOTATION FOR BUSINESS REPORTS

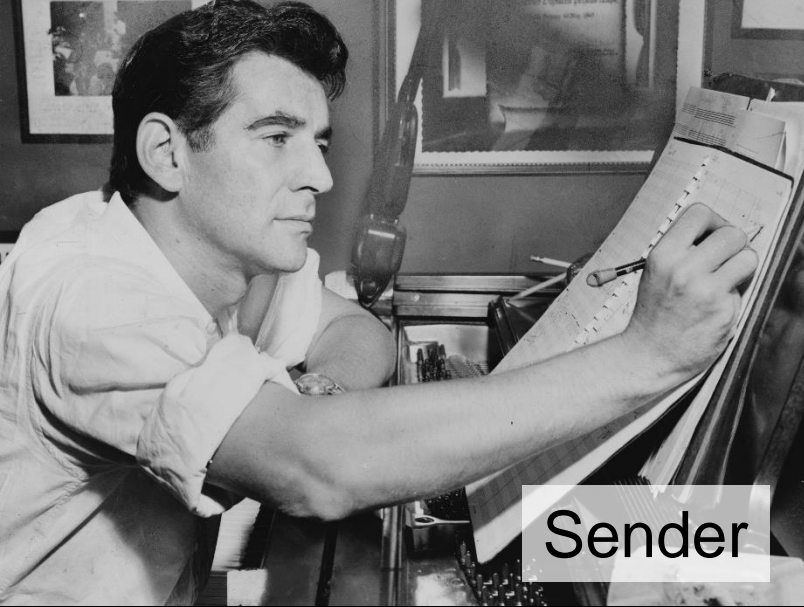
DR. JÜRGEN FAISST AND DIEGO BERE
IBCS ASSOCIATION

INDEX OF CONTENTS

- Make curious about a new ISO NWIP on report notation
- Q/A





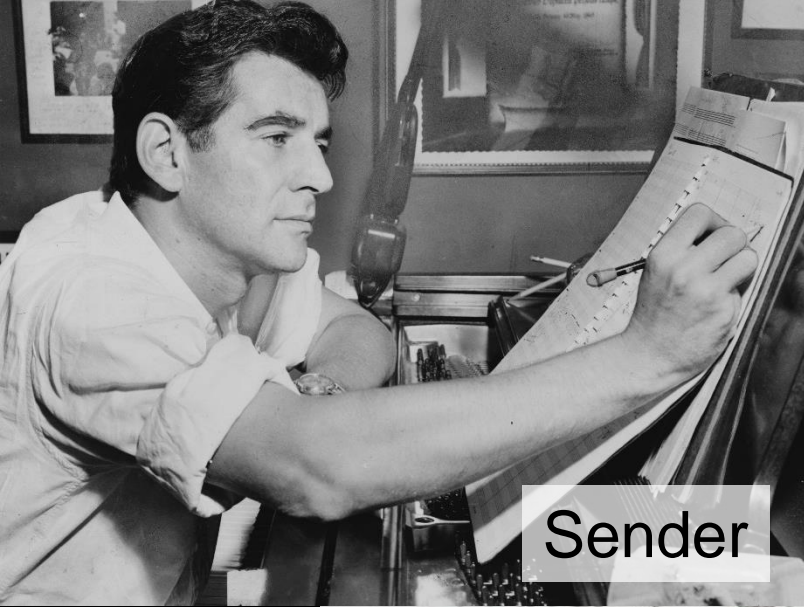


Sender

?



Receiver



Sender

Transfer medium

Receiver





Sender



Transfer medium



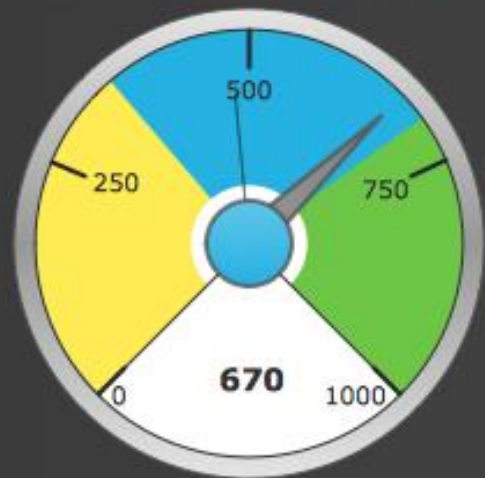
Receiver



?

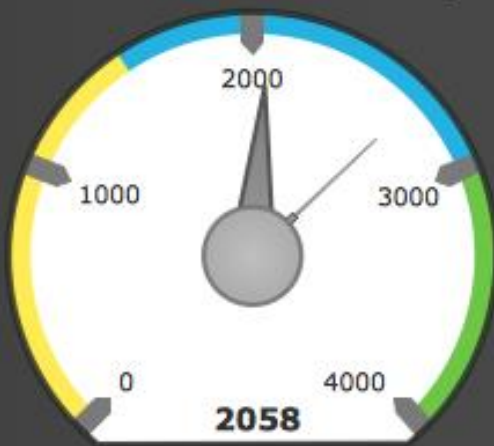


**Average Order Size in June
vs. Avg Order Size in May**



- Pure
- Normal
- Excellent

**New Customers in June
vs. New Customers in May**



- Pure
- Normal
- Excellent

Sales of Product A

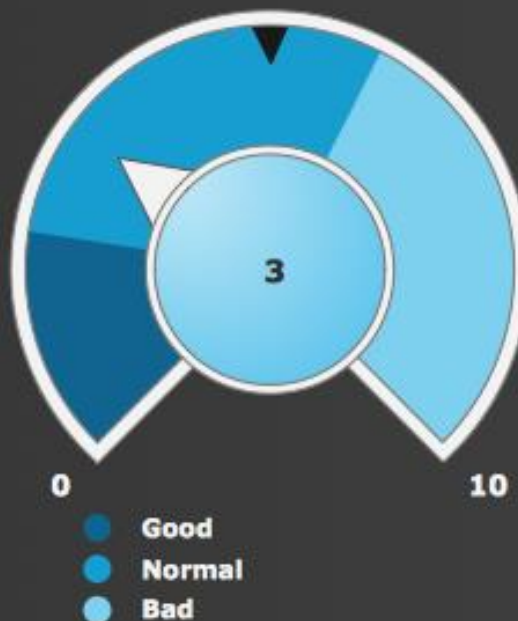


Sales of Product B



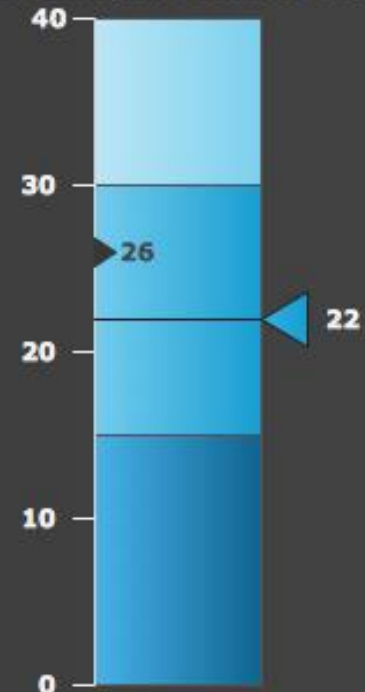
KPIs

**Customer Churn Rate in June
vs. Churn Rate in May**

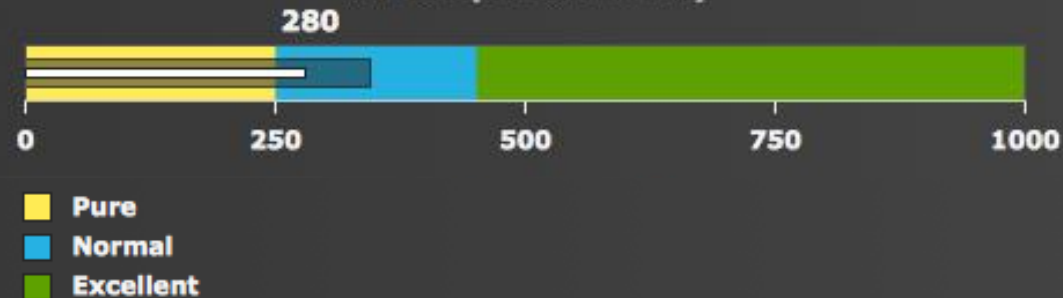


- Good
- Normal
- Bad

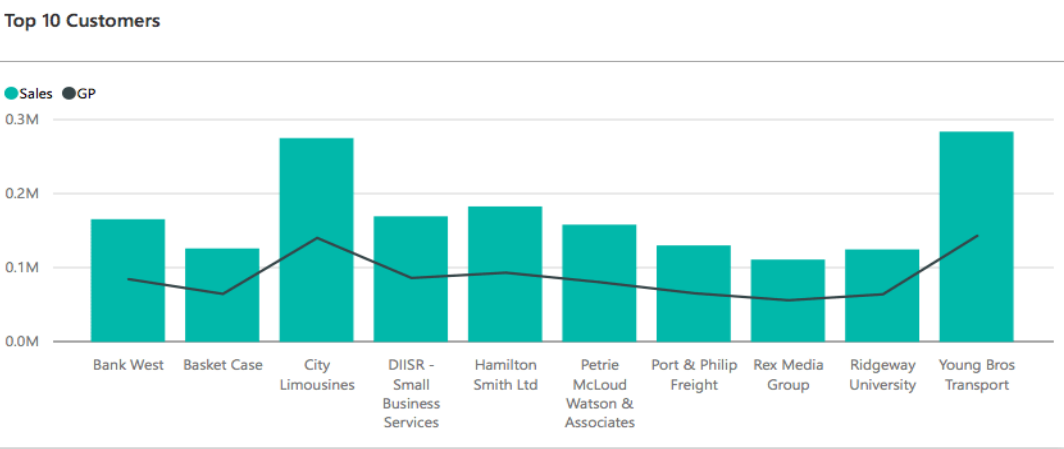
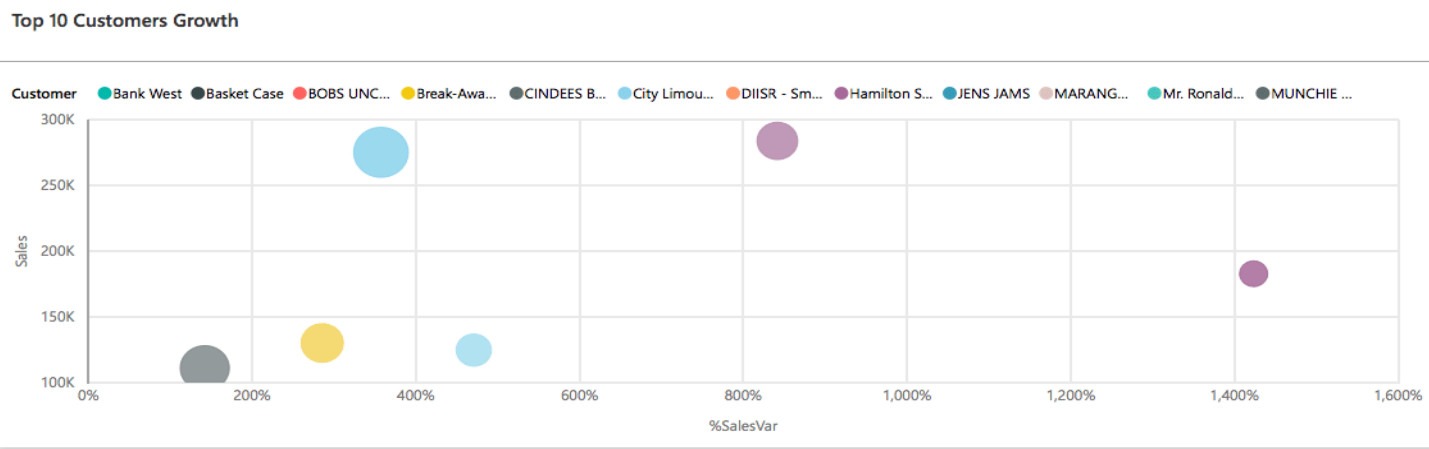
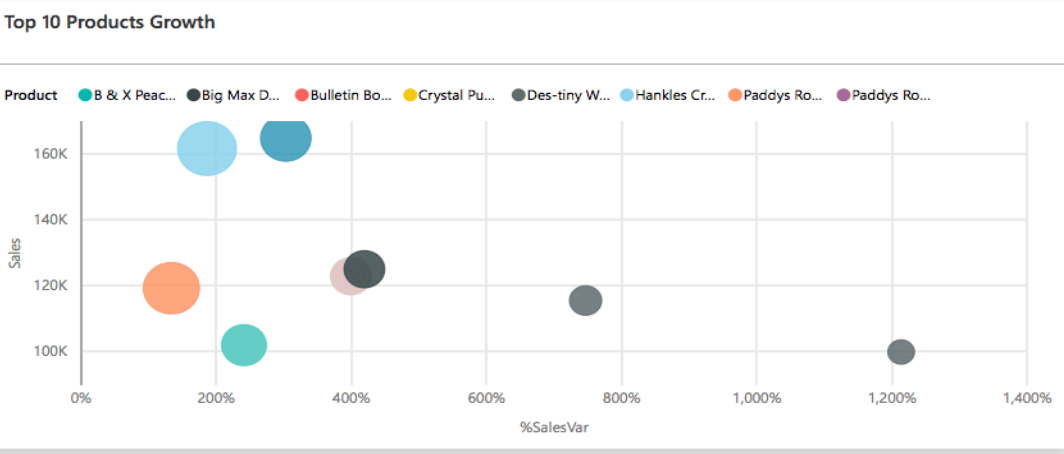
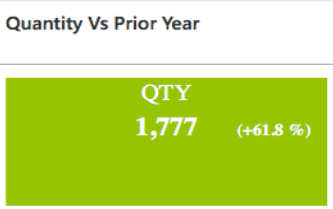
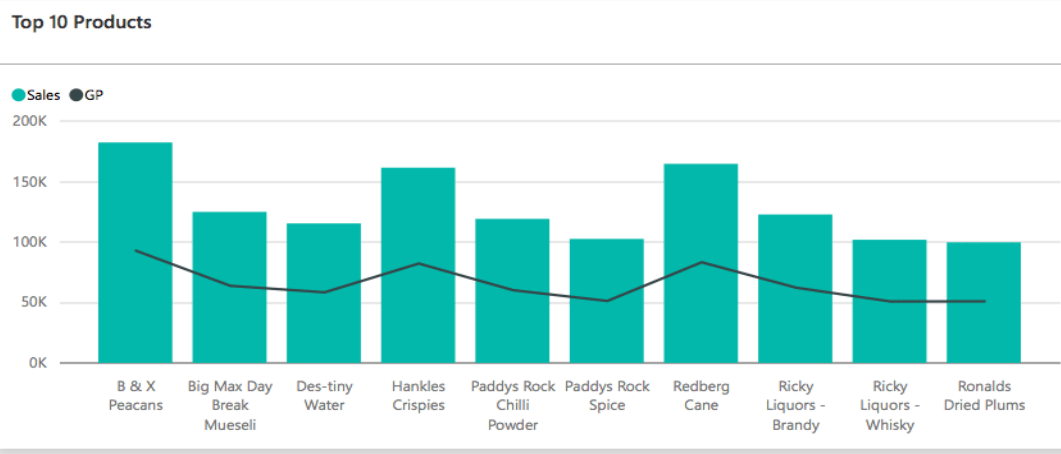
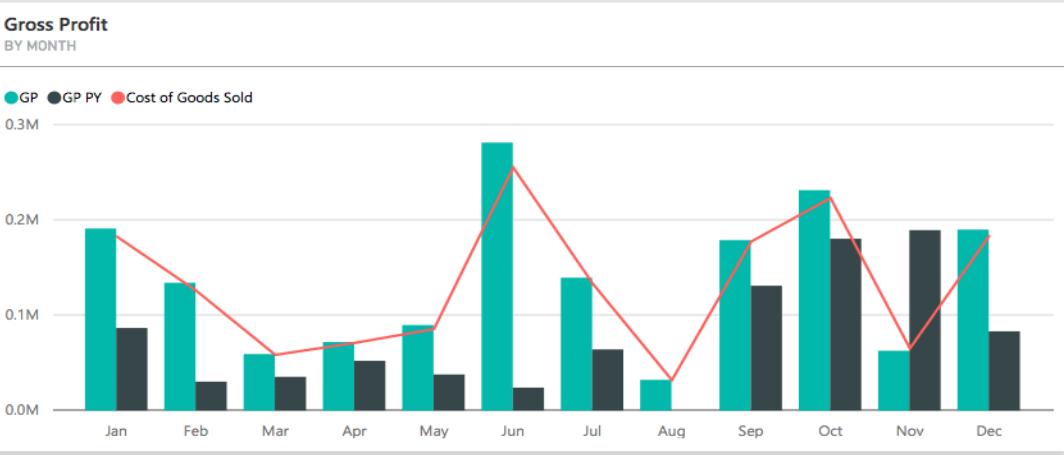
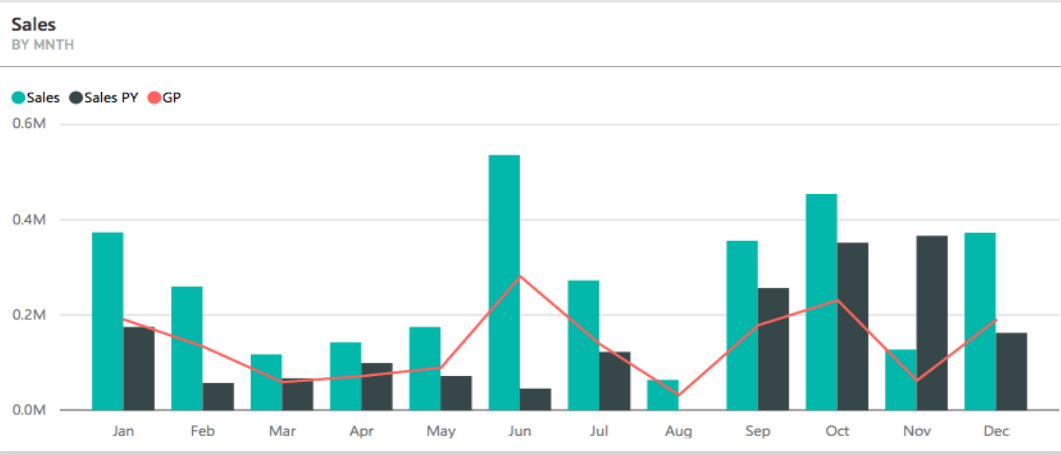
**Cost per Lead in June
vs. Cost per Lead in May**



**Cost per Sale in June
vs. Cost per Sale in May**



- Pure
- Normal
- Excellent

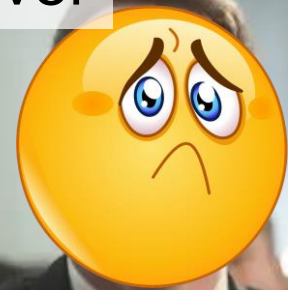




Sender



Receiver





If we want to make business communication more effective, then **things that mean the same have to look the same.**

Prof. Rolf Hichert ”
IBCS Association

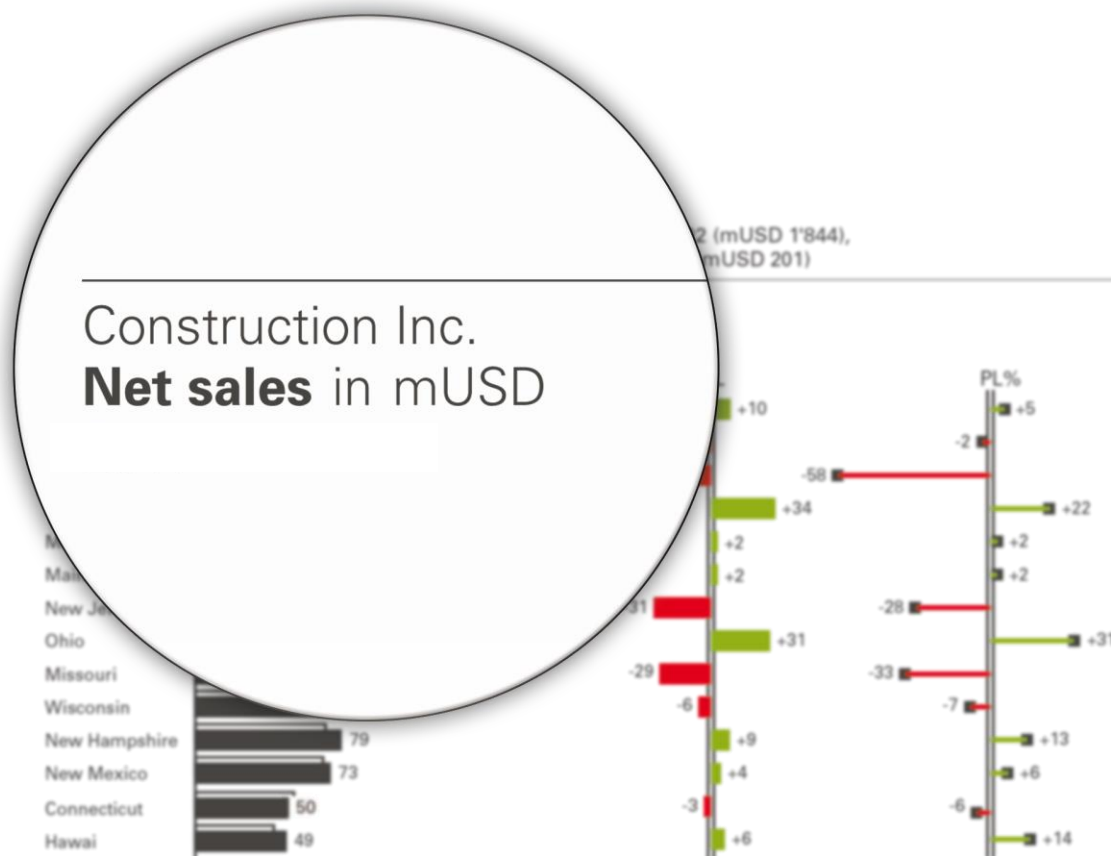
1

Let us unify the titles of pages, charts, and tables. We name the...
organizational unit (who)



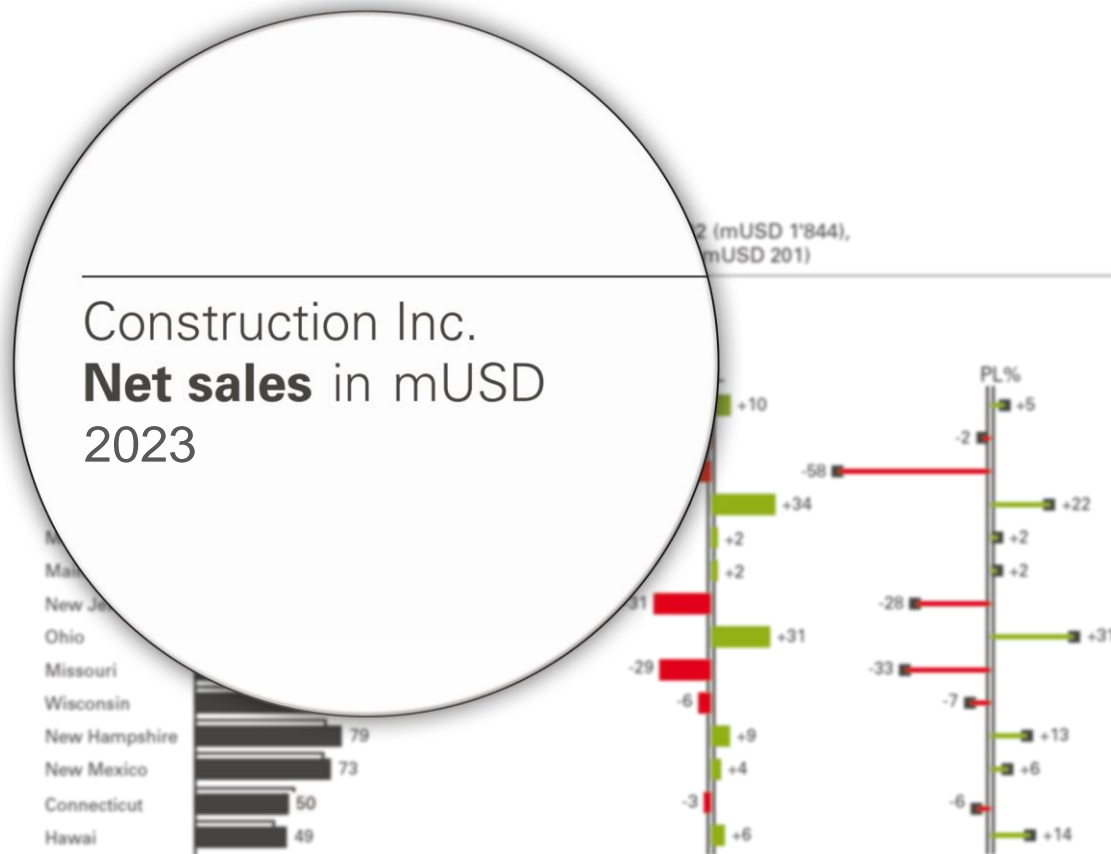
1

Let us unify the titles of pages, charts, and tables. We name the...
organizational unit (who), measure (what)



1

Let us unify the titles of pages, charts, and tables. We name the...
organizational unit (who), measure (what), and time period (when).



2 Let us identify scenarios by fill patterns.



2 Let us identify scenarios by fill patterns.

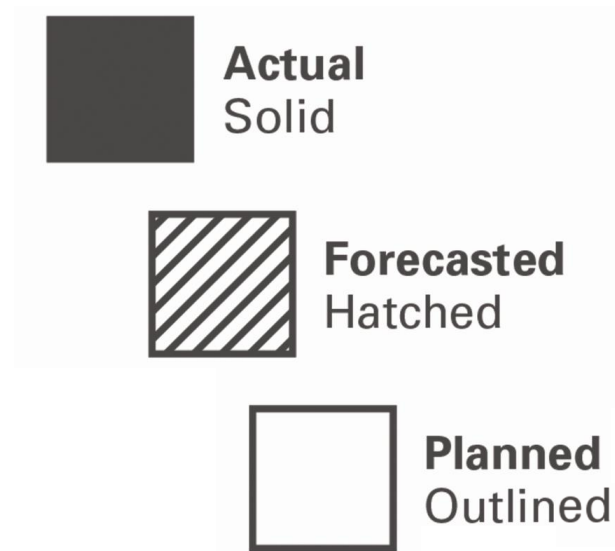


Actual
Solid

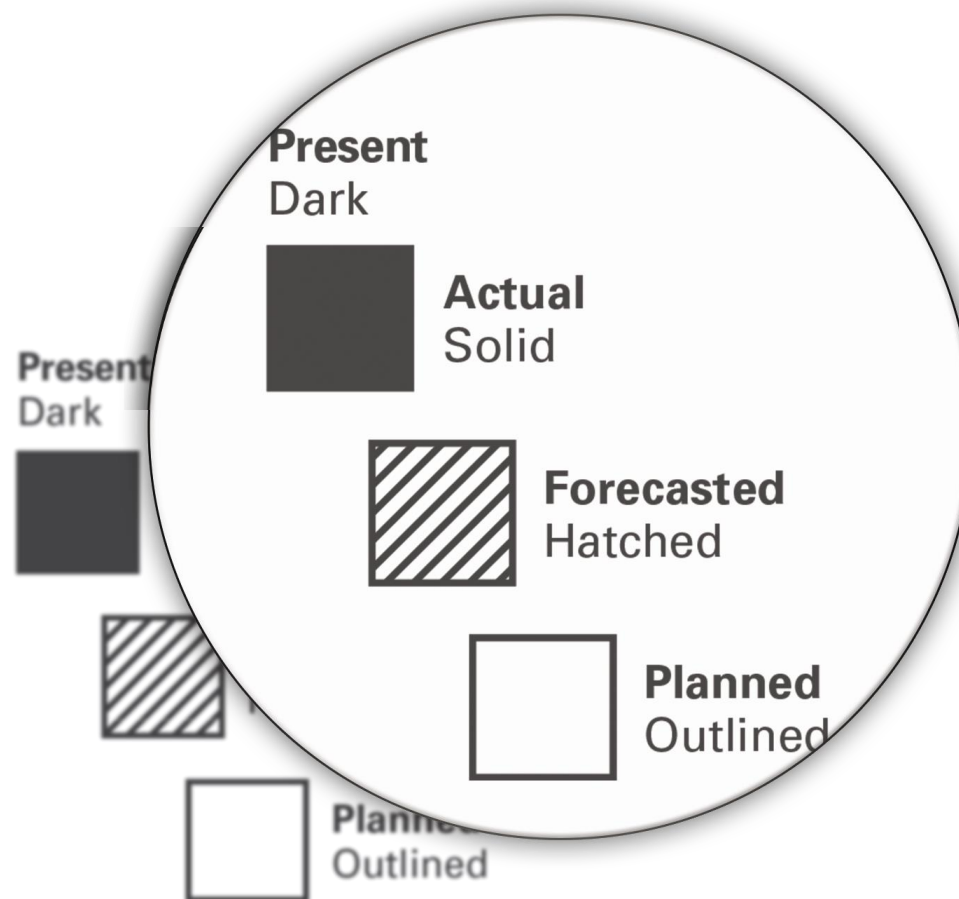


Planned
Outlined

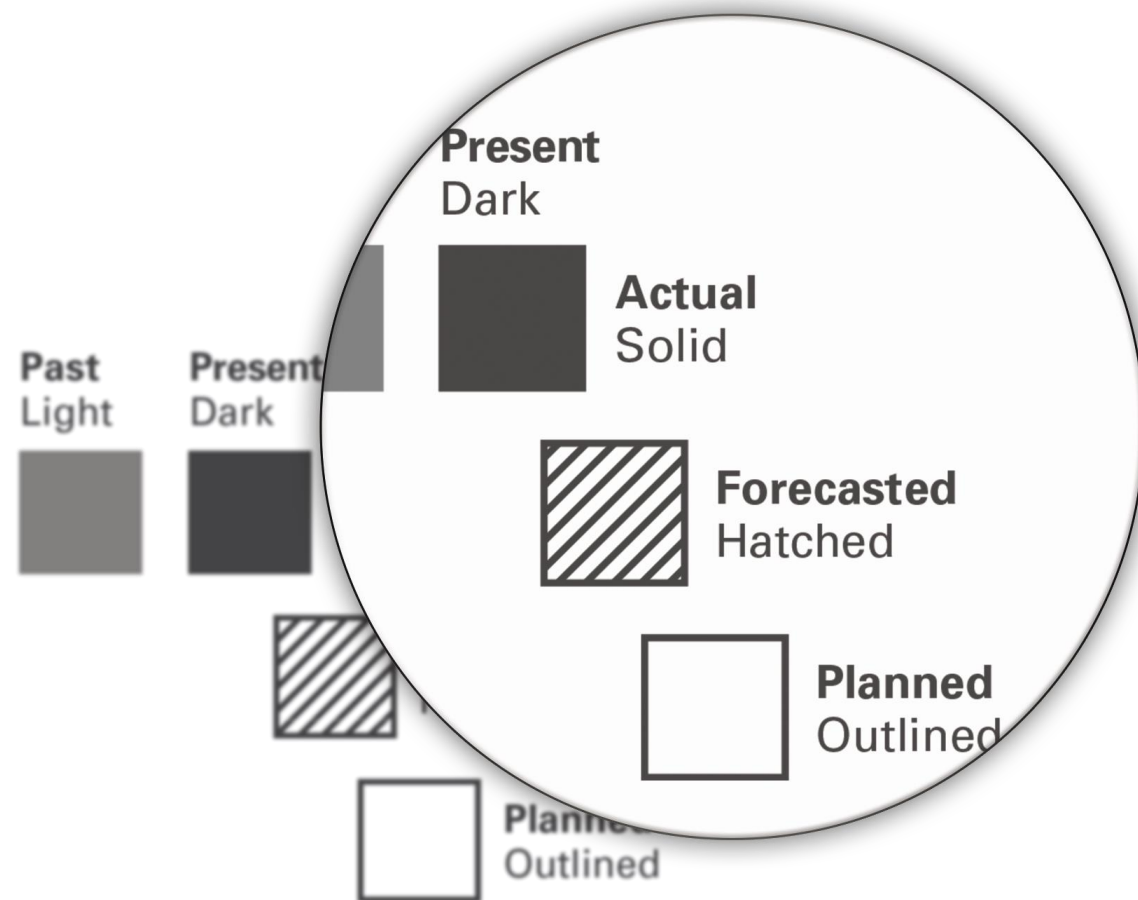
2 Let us identify scenarios by fill patterns.



2 Let us identify scenarios by fill patterns.

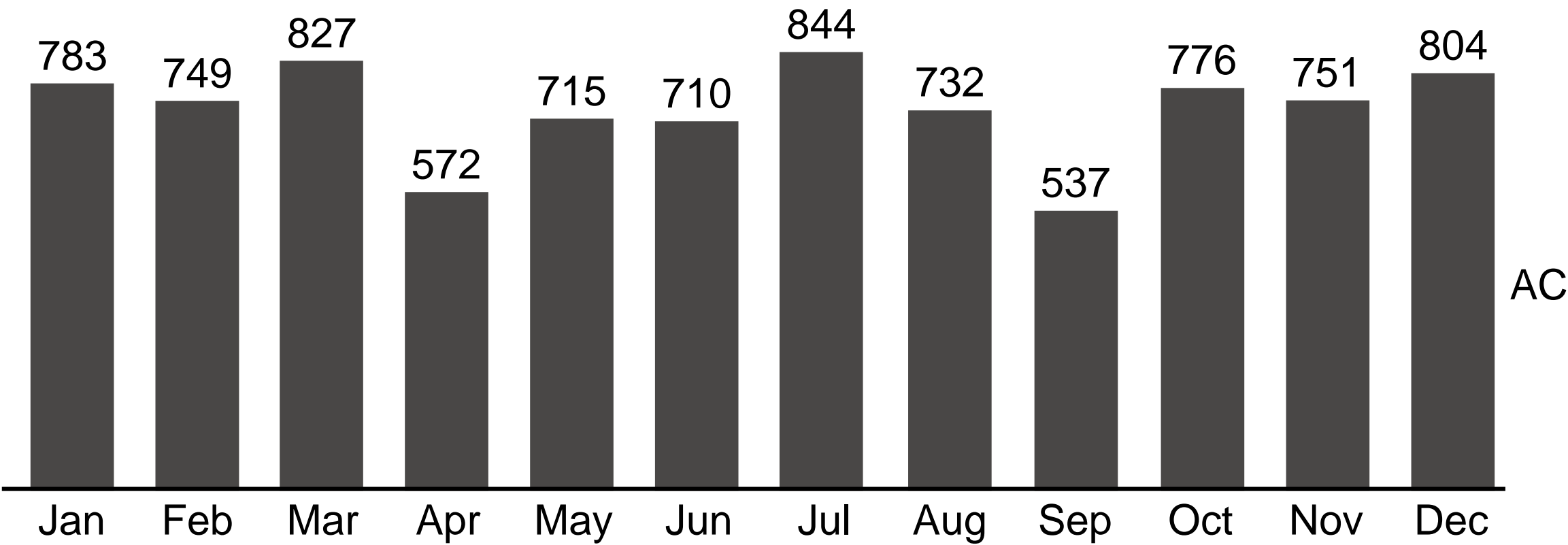


2 Let us identify scenarios by fill patterns.

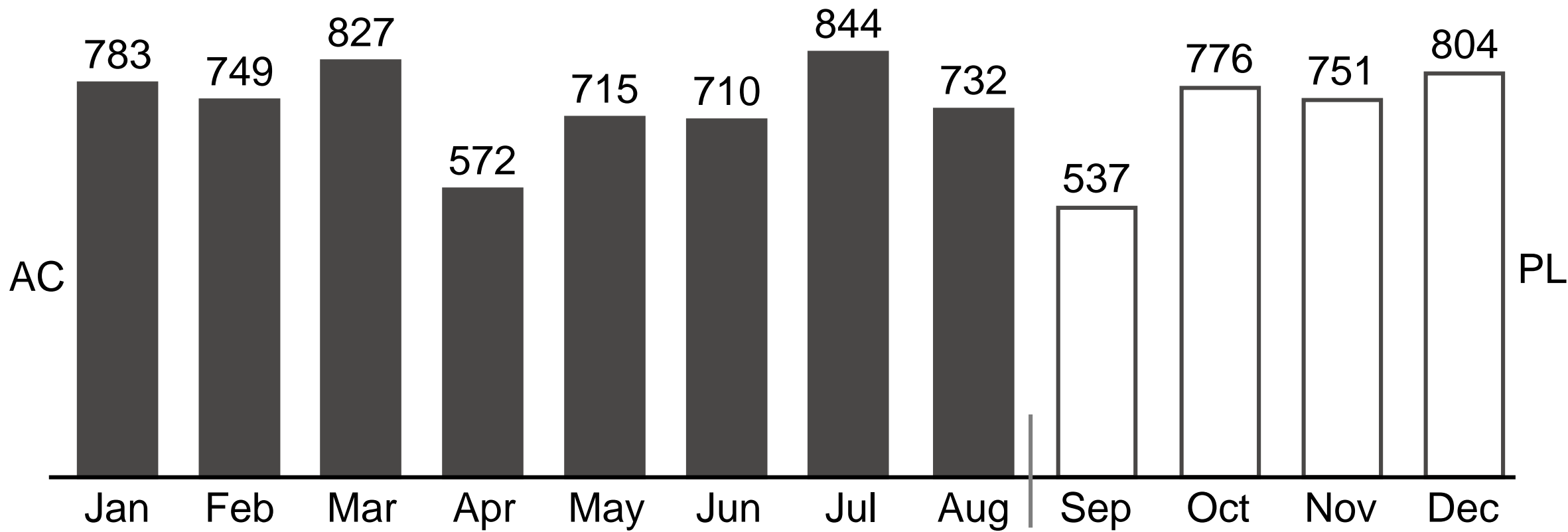


Construction Inc.
Net sales in mUSD
2023

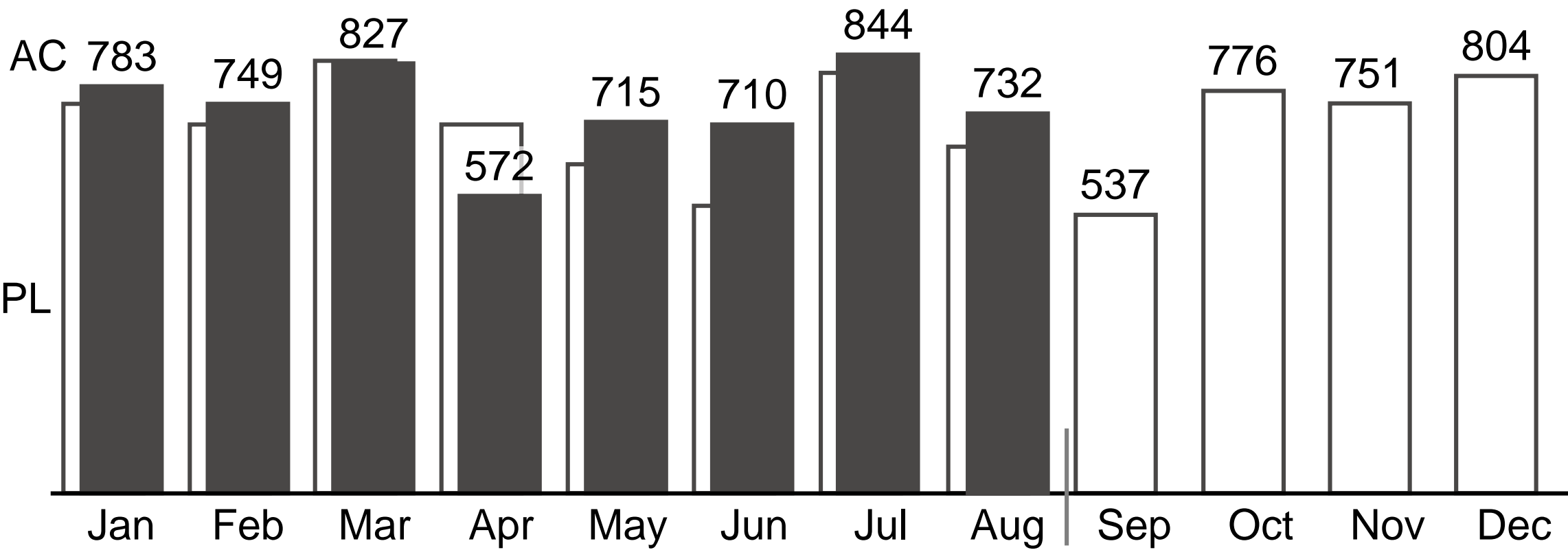
Construction Inc.
Net sales in mUSD
2023



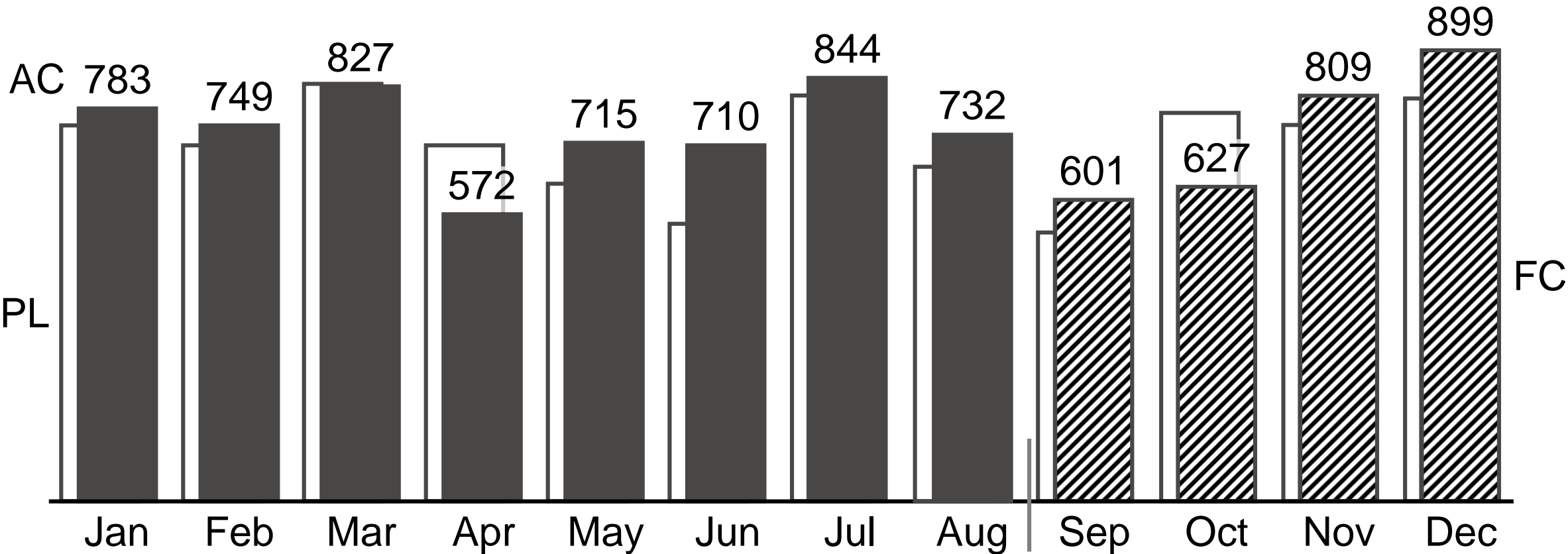
Construction Inc.
Net sales in mUSD
2023



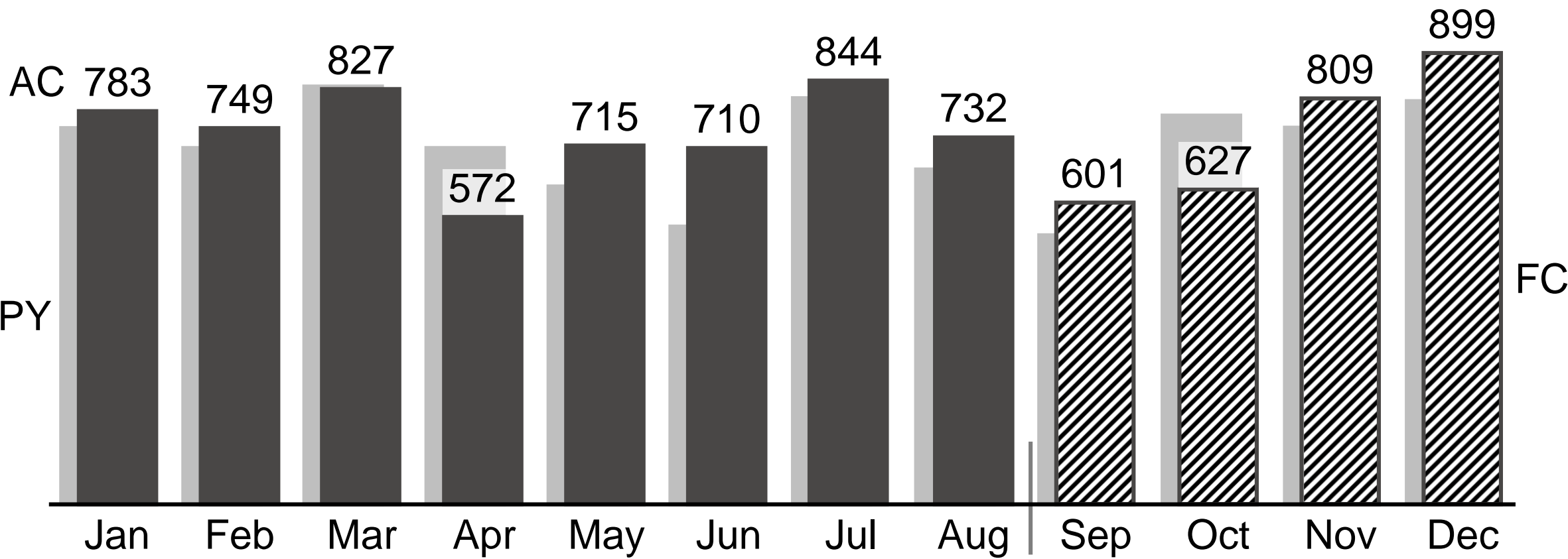
Construction Inc.
Net sales in mUSD
2023



Construction Inc.
Net sales in mUSD
2023



Construction Inc.
Net sales in mUSD
2023





IBCS

Events

Certifications

Resources

About

Shop



IBCS VERSION 1.2

IBCS Version 1.2 provides practical guidelines for the consistent design of reports, presentations, dashboards and the charts and tables they contain. The further development of IBCS is an ongoing process, which is managed by the not-for-profit IBCS Association.



Copyright and Creative Commons

FREQUENTLY ASKED QUESTIONS

The IBCS® Standards are published under the Creative Commons Attribution Share-Alike 4.0 International License (CC BY-SA). You may use the Standards for free in any way you wish, but only if you meet the conditions set out in the CC BY-SA license. These means in particular giving proper attribution to the source and its author, the IBCS Association.

[Read FAQ](#)

UN 3.2 UNIFY SCENARIOS

In charts with stacked columns, standard application of this semantic scenario notation to the lowest segment and Add a frame (outlined) or hatch pattern to these segments if they represent planned or forecasted data.



Comments

Close ✕

Jürgen Feb 20 2022 at 10:36AM Question

I love this new illustration of scenarios. What about other reference scenarios like benchmarks and competitors?

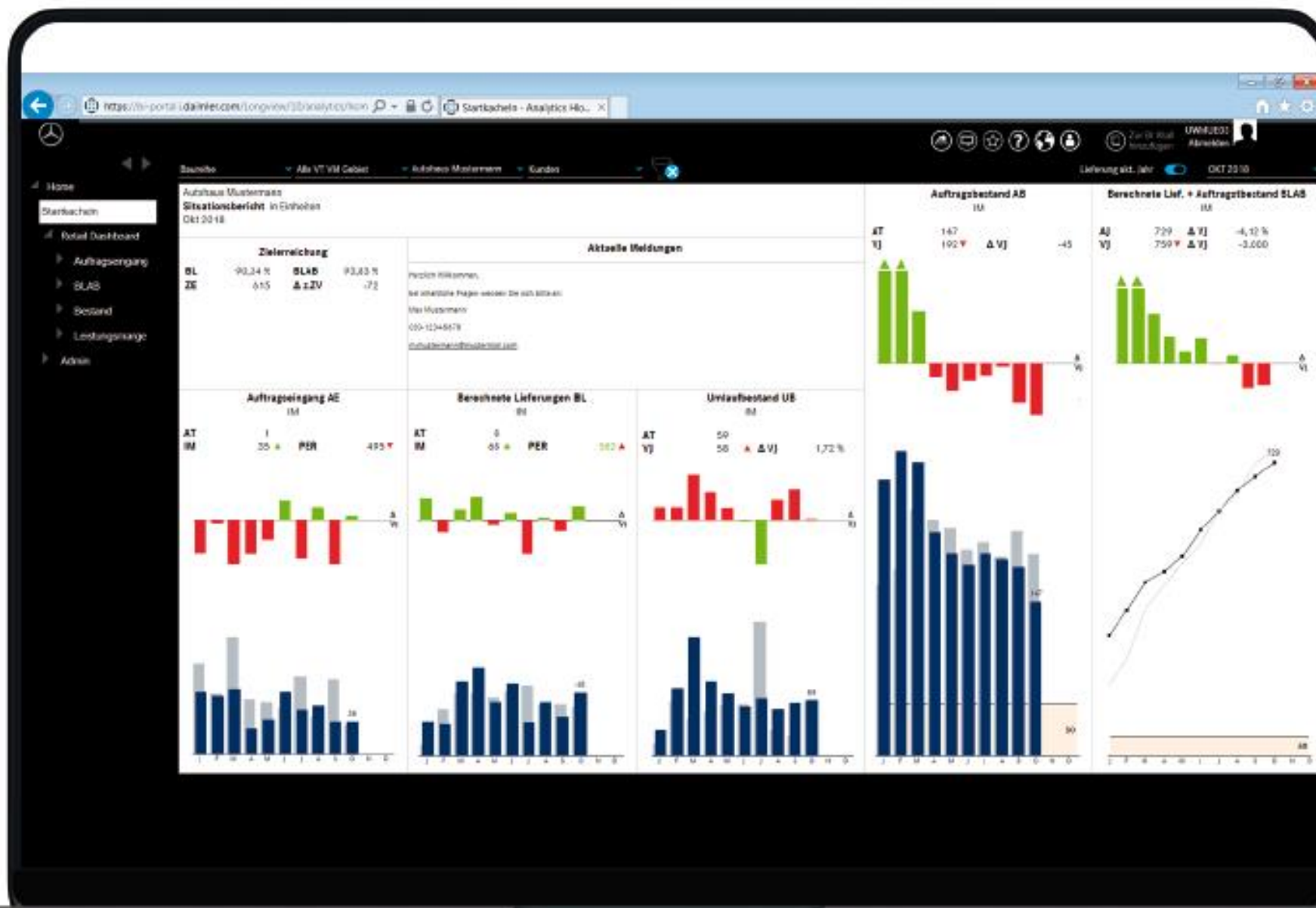
reply 0 0

1

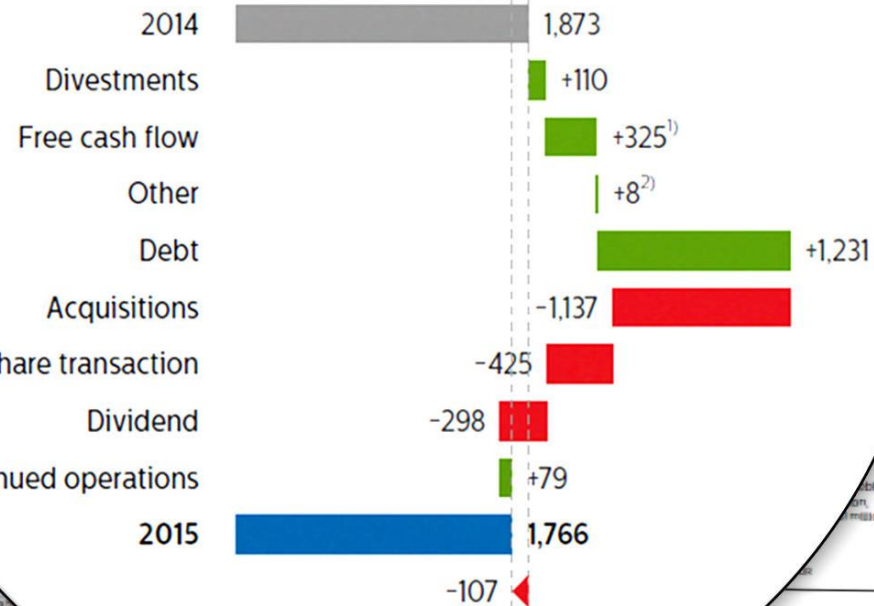


Not-for profit organization

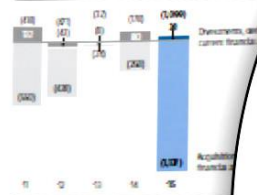
IBCS ASSOCIATION



Group balance movements in millions of EUR



Philips Group
Cash flow from acquisitions and financial assets,
divestments and derivatives in millions of EUR
2011 - 2015



Acquisitions and non-current financial assets

The net cash impact of acquisitions of non-current financial assets in 2015 was 1,137 million. There was a EUR 1,116 million acquisition of businesses, mainly related to the acquisition of Volcano and a EUR 21 million acquisition of non-current financial assets.

The net cash impact of acquisitions of non-current financial assets in 2014, was a EUR 258 million. There was a EUR 177 million outflow from acquisitions of businesses mainly related to the acquisition of a 5% interest in the General Electric Company (GLC) in the Kingdom of Saudi Arabia, EUR 81 million outflow for non-current financial assets, mainly in the form of a EUR 60 million loan to TP Technology Limited.

Divestments, derivatives and current financial assets

Cash proceeds of EUR 110 million were received, mainly from the divestment of the Assemblon Holding B.V., the OEM remote control business and Axium Technologies LLC. Cash flows from derivatives and current financial assets led to a net cash outflow of EUR 72 million.

In 2014, cash proceeds of EUR 87 million were received, mainly from the divestment of the Shakespeare business and the sale of shares in Nausoft. Cash flows from derivatives and current financial assets led to a net cash outflow of EUR 7 million.

Cash flows from financing activities

Net cash provided by financing activities in 2015 was EUR 508 million. Philips shareholders were given EUR 730 million in the form of a dividend, of which the cash portion of the dividend amounted to EUR 298 million. The net impact of changes in debt was an increase of EUR 1,231 million. Additionally, net cash outflows for share buy-back and share delivery totaled EUR 425 million.

Assets	
Other assets	
Receivables	
Prepayments	
Liabilities directly associated with assets held for sale	
Other liabilities	
Net asset employed	
Cash and cash equivalents	2,802
Debt	(2,802)
Net debt	
Non-controlling interests	(12)
Shareholders' equity	(7,216)
Financing	

* Please refer to section 10, consolidated balance sheet, of the annual report.

Philips expects the financing in 2016 to be broadly in line with 2015.

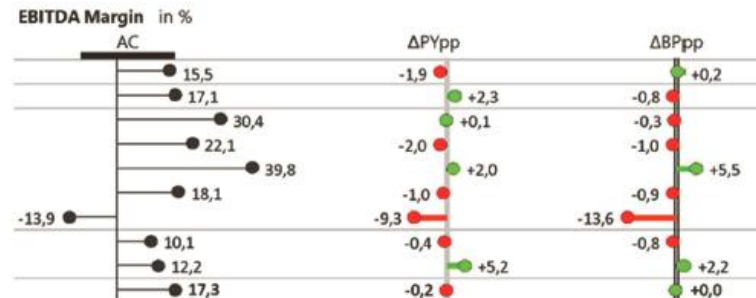
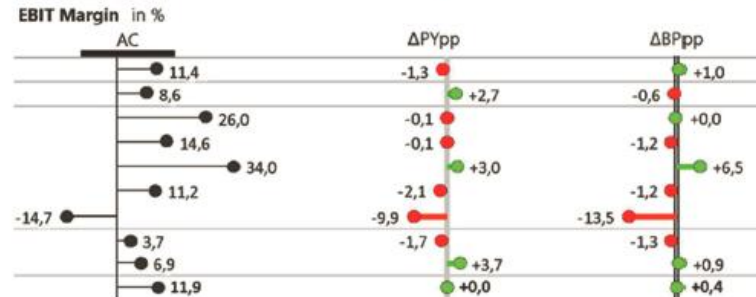
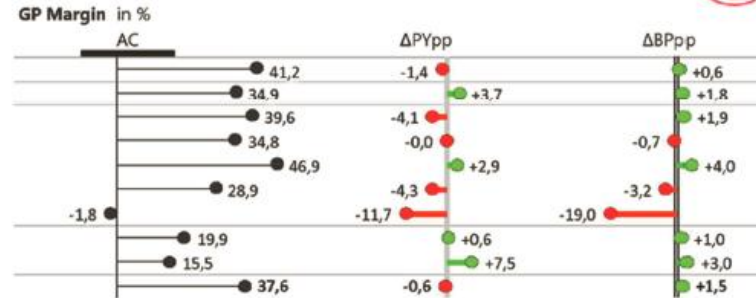
Consolidated net revenue ipsum dolor sit amet, consetetur sadipscing elitr sed diam nonumy eirmod

June 2020 YTD

Net Revenue in mio USD					
	AC	ΔPY	ΔBP	ΔPY%	ΔBP%
U4S	1.538,8	+15,0	-12,0	+1,0	-0,8
UKK	258,7	+9,7	-1,2	+3,9	-0,5
GFT	152,1	+5,3	+6,0	+3,6	+4,1
F3G	57,6	+3,7	-0,8	+6,9	-1,4
I8T	38,8	+3,1	+0,9	+8,6	+2,3
S1D	20,6	+1,7	+0,4	+8,8	+1,8
S54	4,8	+0,9	+0,5	+23,9	+12,8
P7E	45,1	-2,2	-3,8	-4,7	-7,8
JVB	68,9	-5,6	-12,2	-7,5	-15,0
CONS	2.204,6	+31,7	-22,9	+1,5	-1,0

EBIT in mio USD					
	AC	ΔPY	ΔBP	ΔPY%	ΔBP%
U4S	175,9	-6,6	+13,8	-3,6	+8,5
UKK	22,2	+9,9	-1,6	+80,3	-6,7
GFT	39,5	+2,8	+1,6	+7,7	+4,2
F3G	8,4	+0,6	-0,8	+8,2	-9,1
I8T	13,2	+2,7	+2,8	+26,1	+26,5
S1D	2,3	-0,1	-0,2	-3,5	-8,4
S54	-0,7	-0,5	-0,7	-284,1	-1326,5
P7E	1,7	-0,6	-0,8	-27,0	-31,4
JVB	4,8	+2,7	-0,1	+130,3	-3,0
CONS	266,2	+11,6	+13,7	+4,6	+5,4

EBITDA in mio USD					
	AC	ΔPY	ΔBP	ΔPY%	ΔBP%
U4S	239,1	-12,0	+0,8	-4,8	+0,3
UKK	44,2	+13,2	-2,3	+42,8	-4,9
GFT	46,3	+3,5	+1,4	+8,3	+3,2
F3G	12,7	-0,0	-0,8	-0,3	-5,9
I8T	15,4	+2,7	+2,4	+21,7	+18,7
S1D	3,7	+0,3	-0,1	+8,6	-3,3
S54	-0,7	-0,5	-0,7	-275,1	-5007,7
P7E	4,5	+0,1	-0,8	+2,7	-14,9
JVB	8,4	+3,9	+0,3	+86,4	+3,4
CONS	375,0	+11,8	-0,1	+3,2	-0,0



HEC Bridge - SAP Group Bridge

Q1 2017 - FY17



IBCS Certified Software

extensions¹

ks quadrat

extensions²

graphomate .il

graphomate

graphomate charts, matrix & bubbles



HI-CHART

hi-chart



Lumel Technologies

Inforiver Charts & Matrix 1.0

LONGVIEW

Longview

Longview Analytics

SAP Analytics Cloud

SAP

SAP Analytics Cloud

TRUE CHART

HighCoordination

TRUECHART



Vitara

VitaraCharts



XLCubed

XLCubed

zebra bi

Zebra BI

Zebra BI for Excel

zebra bi

Zebra BI

Zebra BI Visuals for Power BI

Contents	Page
Foreword.....	3
Introduction.....	4
1 Scope	5
1.1 General.....	5
1.2 Application	5
2 Normative references.....	5
3 Terms and definitions.....	6
4 Notation requirements.....	6
4.1 General design principles.....	6
4.1.1 Font-size based dimensioning.....	6
4.1.2 General design of charts and tables	7
4.1.3 Labelling	11
4.2 Notation of values in charts.....	13
4.2.1 Manipulation of visuals	13
4.2.2 Truncated axes	13
4.2.3 Clipped columns and bars.....	14
4.2.4 Identical scale for the same unit	14
4.3 Notation of measures in charts	15
4.3.1 Base measures.....	15
4.3.2 Ratios	16
4.4 Notation of scenario types.....	16
4.4.1 Scenario types	16
4.4.2 Application of scenario notation in charts and tables	17
4.4.3 Scenario comparisons	18
4.5 Notation of variances.....	18
4.5.1 Variance number format.....	18
4.5.2 Impact of variances on target achievement and their notation	19
4.5.3 Absolute and relative variances	19
Bibliography.....	21

4.3.2 Ratios

Ratios such as "return on sales" are quotients of two base measures and thus become derived measures. In reporting practice, few denominators exist: "Sales", "units sold", "headcount", and "capital" constitute the majority of all business ratios.

In order to recognise a ratio in a column or bar chart, the width of both bars and columns shall be set to half the width of bars and columns representing *base measures* i.e. 1/3 of the category width.

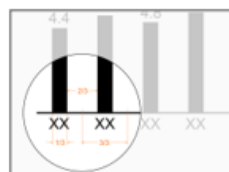


Figure 20: Columns showing a ratio

4.4 Notation of scenario types

When analysing data by looking at charts and tables, it is very important to quickly recognize whether it shows measured, expected, or fictitious data. Readers of reports shall visually recognize these scenario types by looking at a chart or a table without having to read the labels.

4.4.1 Scenario types

There are two basic types of scenarios:

1. *Actual* scenarios refer to *measured* data about things that already happened in present or past time periods. The terms most often used for scenarios of this type are 'Actual' and 'Previous year' (meaning actual data from previous year).
2. *Planned* scenarios refer to *fictitious* (not materialized) data. The terms most often used for scenarios of this type are 'Plan' and 'Budget'.

In-between those two basic scenario types there is a third one:

3. *Forecasted* scenarios refer to *expected* data which are strictly speaking fictitious but already taking into account measured data. A typical example for expected data is the sales forecast based on the measured order entry. Forecasted scenarios represent a higher level of certainty than scenarios with planned data but are not completely materialized yet. The term most often used for scenarios of this type is 'Forecast'.

4.4.1.1 Notation of actual scenarios (measured data)

Scenarios with measured data shall be identified by a solid dark (e.g. dark grey) fill for the areas of the respective visualization elements.

If measured data of recent periods ("Actual") are compared with measured data from earlier periods (e.g. "Previous year", "Previous month") in a scenario comparison, then the areas representing the earlier periods shall be presented with a lighter solid fill (e.g. light grey).

NOTE: If data from multiple periods is presented in a time series rather than a scenario comparison, then there is no need for colouring earlier periods with a lighter fill.

4.4.1.2 Notation of planned scenarios (fictitious data)

Scenarios with fictitious data shall be identified by outlined (bordered, framed) areas of the respective visualization elements. The areas within these borders literally "fill up when materializing", e.g. when changing from fictitious data to measured data.

4.4.1.3 Notation of forecasted scenarios (expected data)

Expected data is strictly speaking fictitious, so they shall also be identified by outlined areas. However, as it is based on measured data, the area fill of the respective visualization elements shall be filled with a hatched pattern. The colour of the dark stripes shall correspond to the colour of measured data (e.g. dark grey).

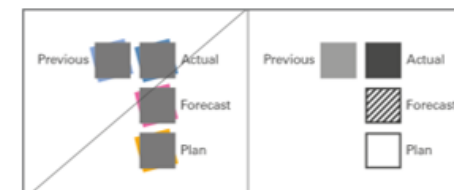


Figure 21: Notation of scenario types

4.4.2 Application of scenario notation in charts and tables

In charts, the semantic scenario notation shall be applied to the *area fill* of the visualization element representing the scenario. Typical visualization elements to carry semantic scenario notation in charts are bars, columns and line markers.

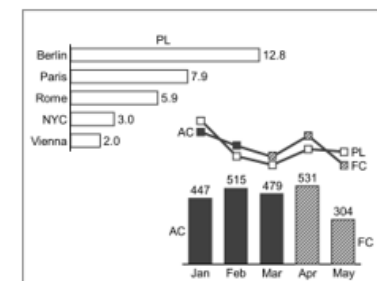


Figure 22: Visualization of scenario types in bars, columns, and line markers

In charts with stacked columns, stacked areas, and stacked bars, the scenario notation shall be applied to the lowest segment. All upper segments shall be filled with different shades of grey with an additional frame (outlined) or hatch pattern if these segments represent planned or forecasted data.



Figure 23: Visualization of scenario types in stacked columns

Join our session

Tuesday June 6

17:00

ASP 1E2

A STANDARD NOTATION FOR BUSINESS REPORTS

Agenda

- Why an ISO NWIP for report notation based on IBCS?

- What is IBCS?

- Examples from NWIP Pre-Expert Draft

<https://sd.iso.org/documents/open/8a8f2d93-32be-4b01-ac02-af3d3c30a786>

- Q/A

- Is this initiative of interest to ISO/TC37?

Resources for further information on benefits of a standardised report notation

Videos

- Explanatory video:

<https://youtu.be/VkCyNOioUQQ>

- Introductory lesson to video course “Solid, outlined, hatched”:

<https://ibcs.teachable.com/courses/solid-outlined-hatched/lectures/15948252>

Books

- IBCS Version 1.2:

https://geni.us/standards_ibcs (also available in Spanish language)

- Solid, outlined, hatched – How visual consistency helps better understand reports, presentations and dashboards:

https://geni.us/soh_ibcs (also available in German language)